TABLE A MINIMUM RECOMMENDED DELINEATOR AND SIGN PLACEMENT

Table A-1
Taper Length Criteria for Temporary Traffic Control Zones

Type of Taper	Taper Length
<u>Upstream Tapers</u>	
Merging Taper	L MINIMUM
Shifting Taper	1/2 L Minimum
Shoulder Taper	1/3 L Minimum
Two-Way Traffic Taper	30 meters (100 feet) Maximum
Downstream Tapers	
(Use is optional)	30 meters (100 feet) Minimum

Formula for Taper Length 'L'

(For State Highways, see Traffic Control Systems in the Caltrans Standard Plans)

<u>English</u>	Metric *
$L = \frac{WS''}{60}$ (40 mph or less)	$L = \frac{WS''}{150}$ (65 km/h or less)
L = WS (45 mph or greater)	L = 2/3 WS (70 km/h or greater)
L = Taper Length in feet W = Width of Offset in feet S = Speed in mph	L = Taper Length in meters W = Width of Offset in meters S = Speed in km/h

^{*} The metric formulas result in larger values due to the rounding of the constant in converting the English formula to the metric formula.

Table A-2
Suggested Advance Warning Sign Spacing

Road Type	Distance Between Signs in Meters (Feet)			
	Α	В	С	
Urban-40 km/h (25 mph) or less	60 (200)	60 (200)	60 (200)	
Urban-50 km/h (30 mph) or more	100 (350)	100 (350)	100 (350)	
Rural	150 (500)	150 (500)	150 (500)	
Expressway/Freeway	300 (1000)	300 (1000)	300 (1000)	

Note: These are suggested distances for Advance Warning Signs, adequate sign distances and proximity to other roadway features may dictate the need for adjustments when placed.

Table A-3

Taper Length, Buffer Space and Advance Warning Sign Spacing
Use in Typical Applications Diagrams

English Measurements

Length of Taper 'L' in Feet

Longar	or rapor =		
Speed in			
Miles	Width of Offset**		
per Hour*	11 Feet	12 Feet	
20	73	80	
25	115	125	
30	165	180	
35	225	245	
40	293	320	
45	495	540	
50	550	600	
55	605	660	
60	660	720	
65	715	780	
70	770	840	
		0-1	

Metric Measurements

Length of Taper 'L' in Meters

Lengine	<u>л</u>	Taper L I	11	IVICICIS	
Speed in					_
Kilometers		Width of			
per Hour*	3	.3 Meters	3	6 Meters	S
30		20		22	
40		35		38	
50		55		60	
60		79		86	
70		154		168	
80		176		192	
90		198		246	
100		220		240	
110		242		264	
				·	4

^{*} Posted speed, off-peak 85th percentille speed prior to starting, or the anticipated operation speed.

Length of

Longitudinal Buffer Space

Speed in	Length of	
Miles	Buffer Space	
per Hour*	in Feet	
20	35	
25	55	
30	85	
35	120	
40	170	
45	220	
50	280	
55	335	
60	415	
65	485	
70	585	

Length of Longitudinal Buffer Space

Longitudinal Buller Space			
Speed in	Length of		
Kilometers	Buffer Space		
per Hour*	in Kilometers		
30	10		
40	17		
50	28		
60	43		
70	62		
80	84		
90	106		
100	136		
110	170		

^{*} Posted speed, off-peak 85th percentille speed prior to starting, or the anticipated operation speed.

Advance Warning Sign Spacing 'S'

Advance Warning Sign Spacing S		
Road Type	D	istance Between Signs in Feet*
Urban-25mph or less		200
Urban-30mph or more	,	350
Rural		500
Expwy/Fwy		1000

^{*} See Note.

Advance Warning Sign Spacing 'S'

	0 0 . 0
Road Type	Distance Between Signs in Feet*
Urban-40km/h or less	60
Urban-50km/h or more	100
Rural	150
Expwy/Fwy	300

^{**} For other offset widths, apply the formula in table A-1.